

1

[illegible]

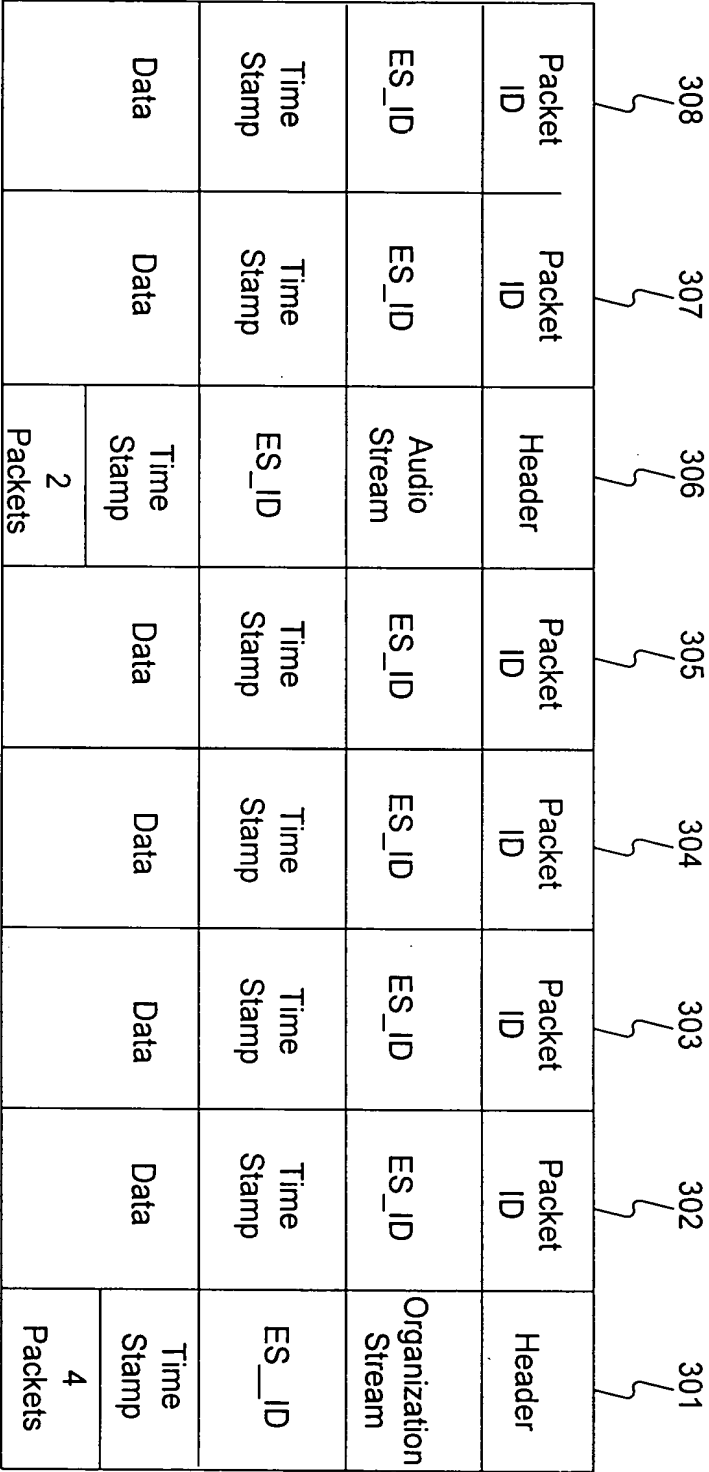


Fig. 3

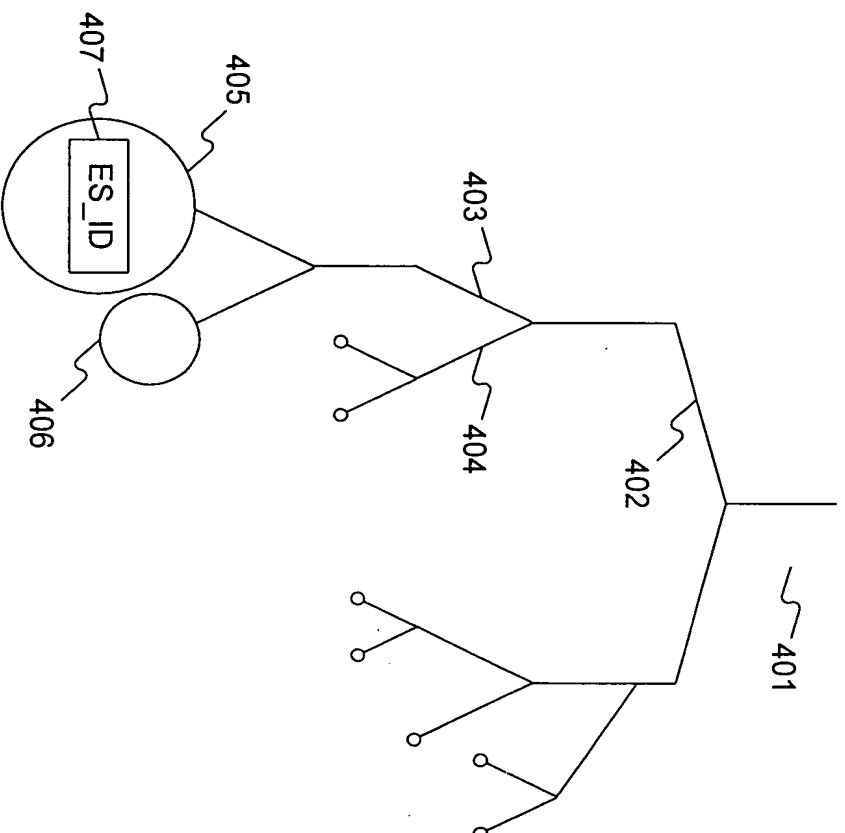


Fig. 4

Control Message

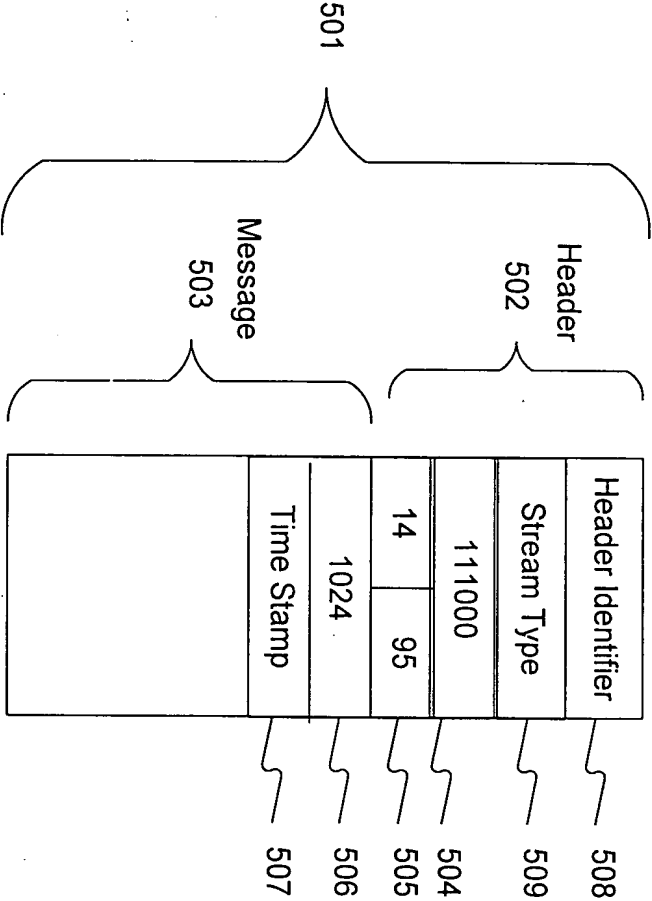
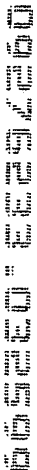
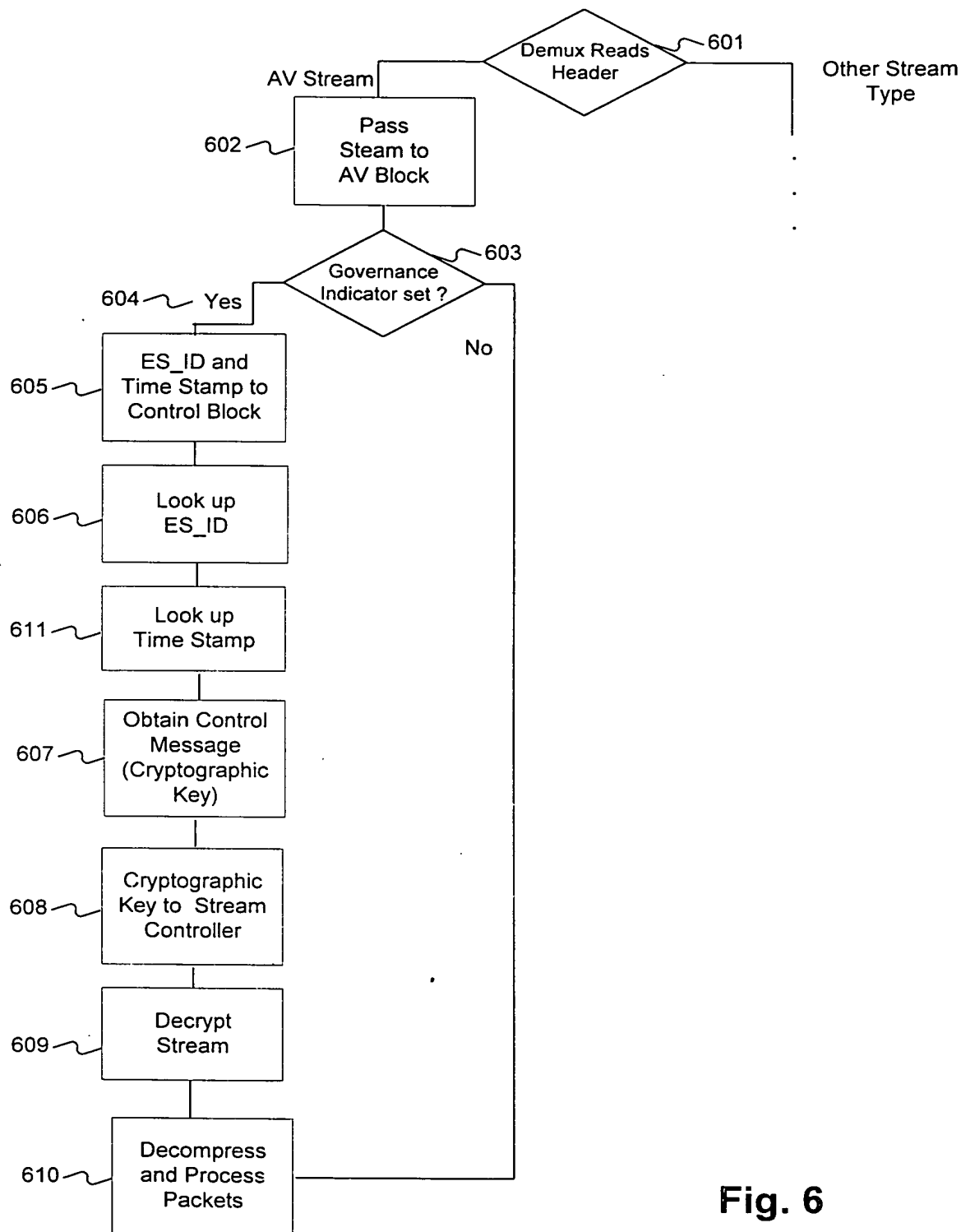


Fig. 5



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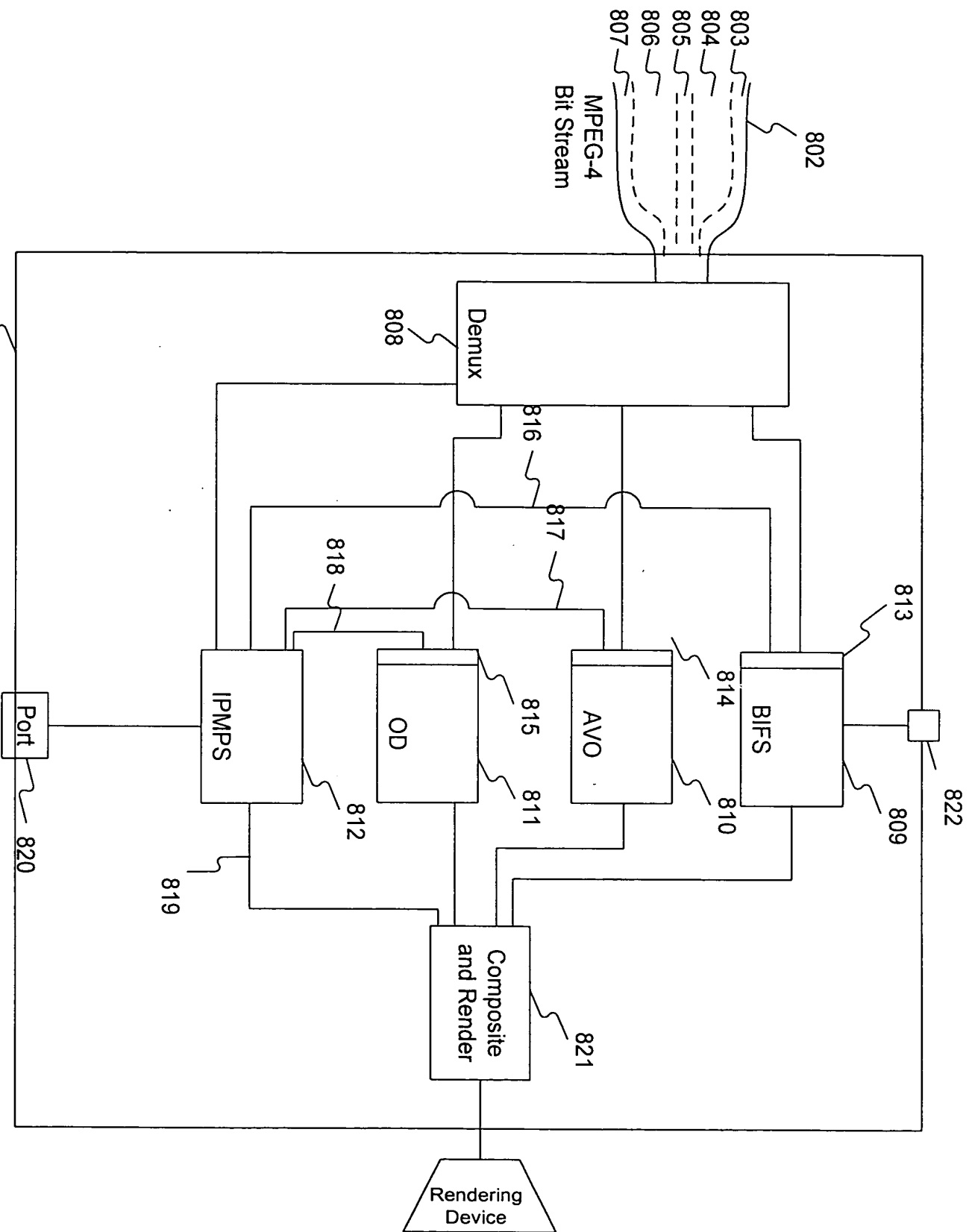


Fig. 8

IPMP Table

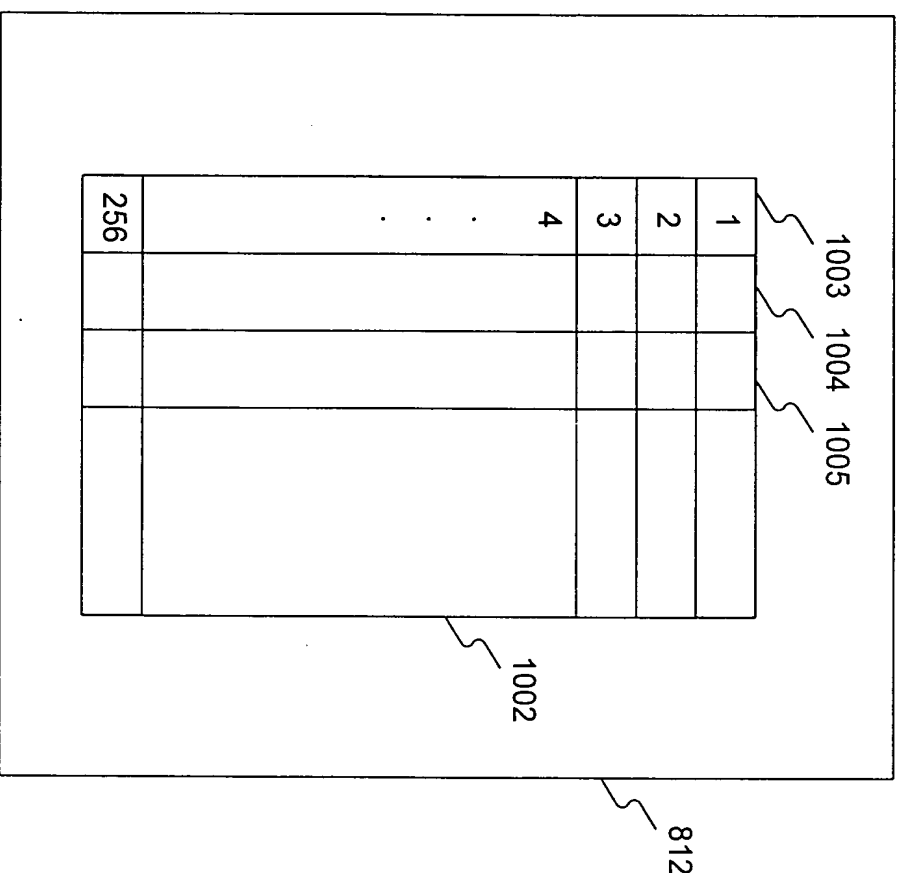


Fig. 10

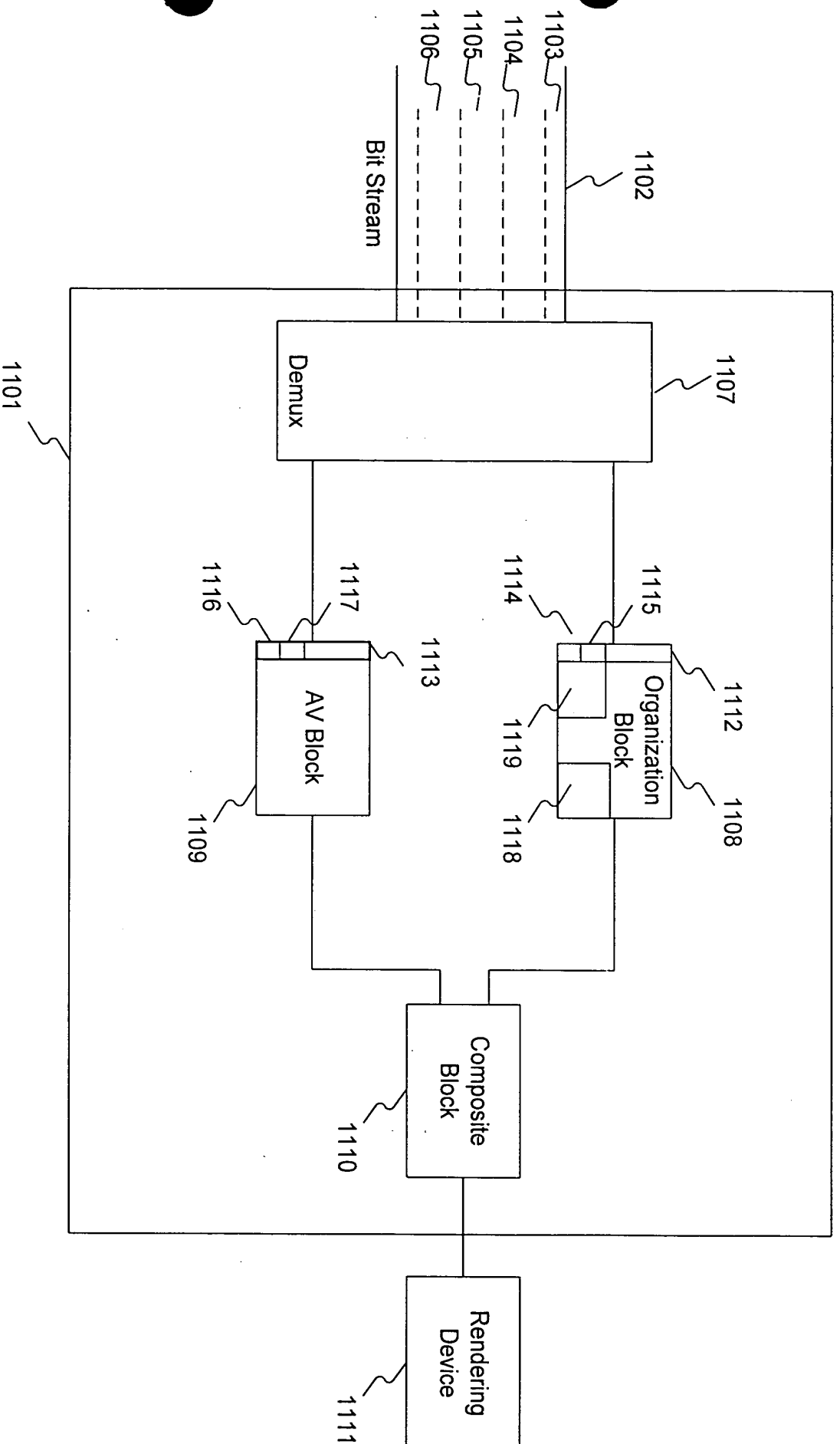


Fig. 11

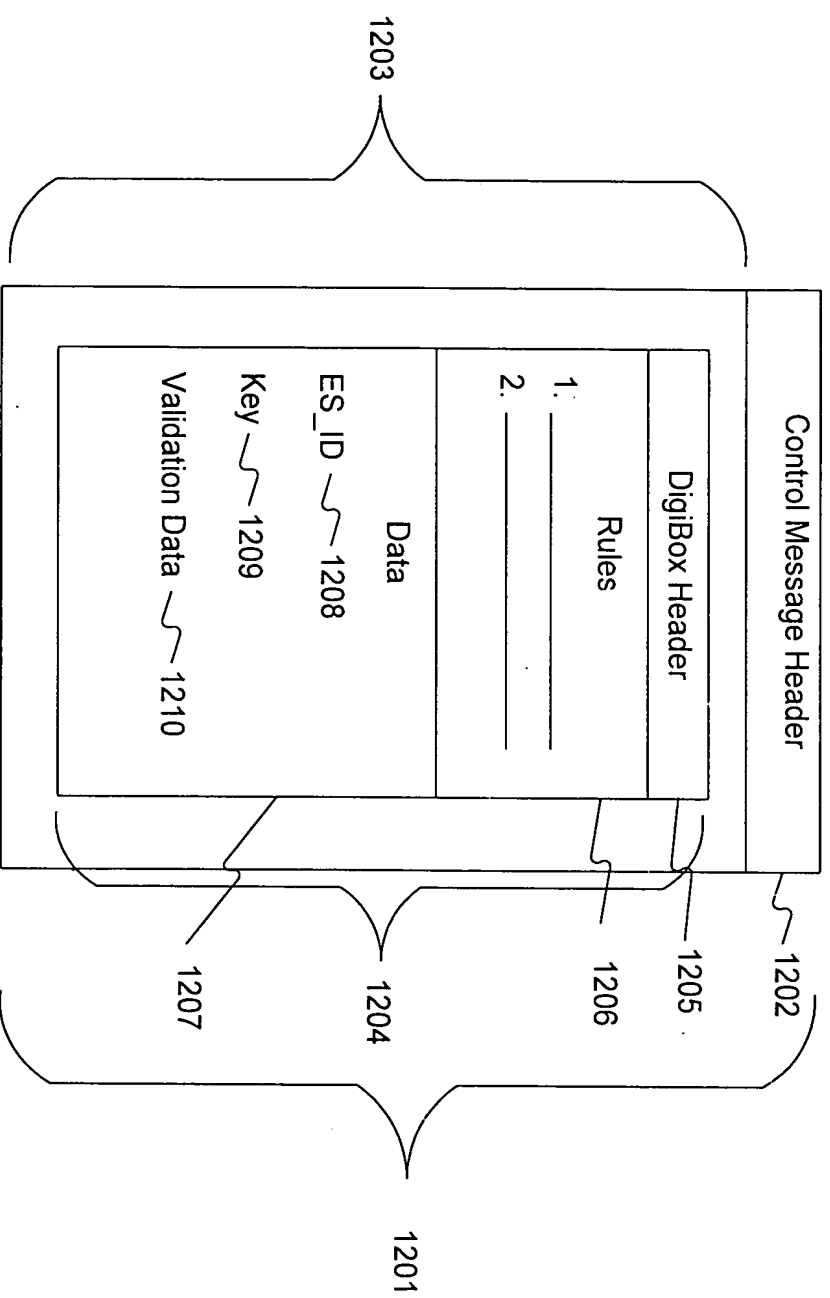


Fig. 12

Real Networks File Format

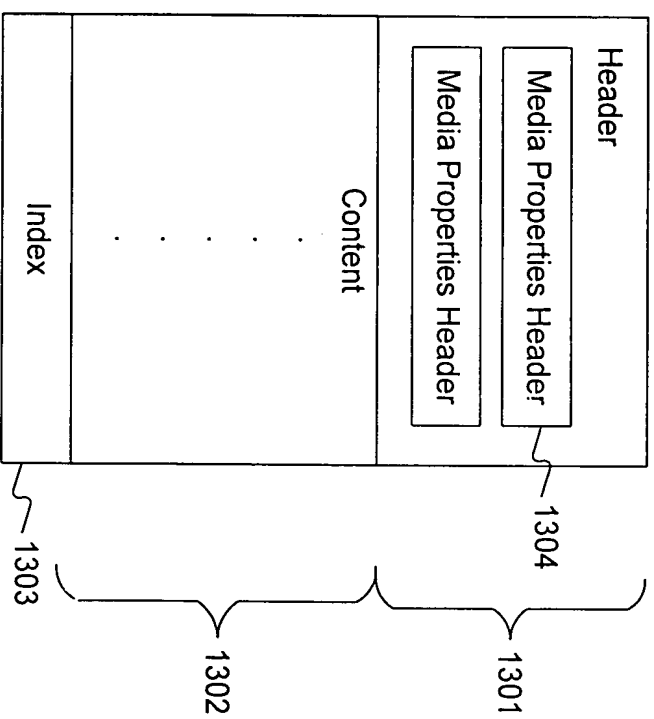


Fig. 13



Fig. 14

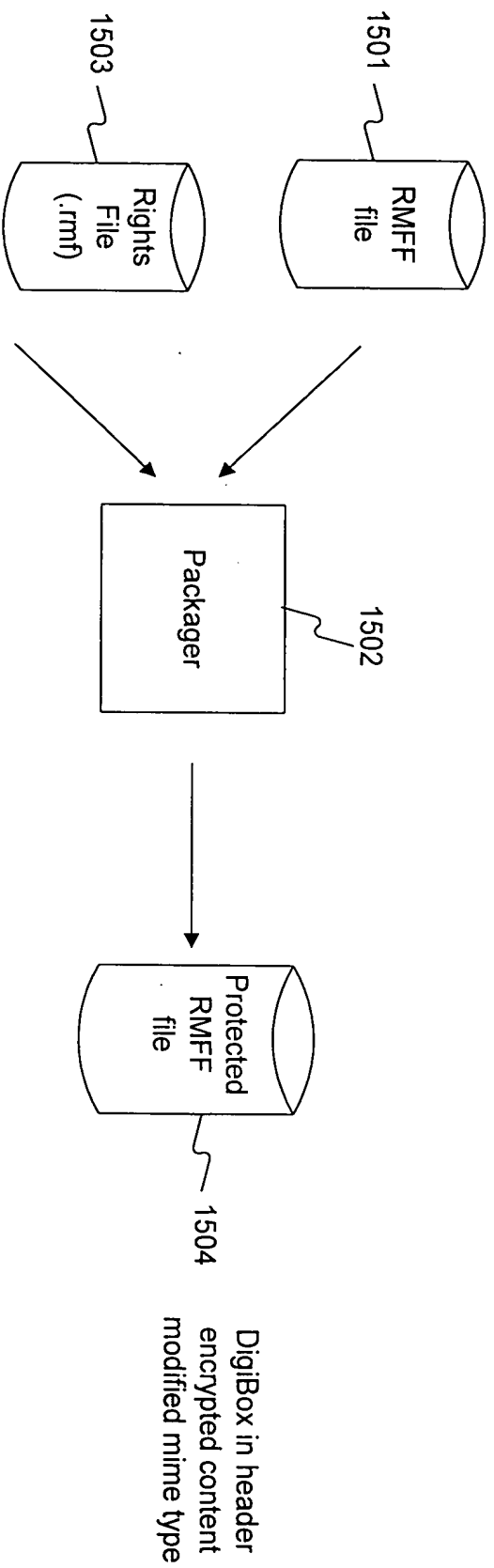
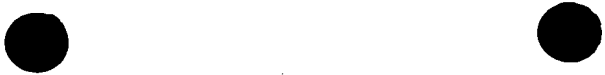
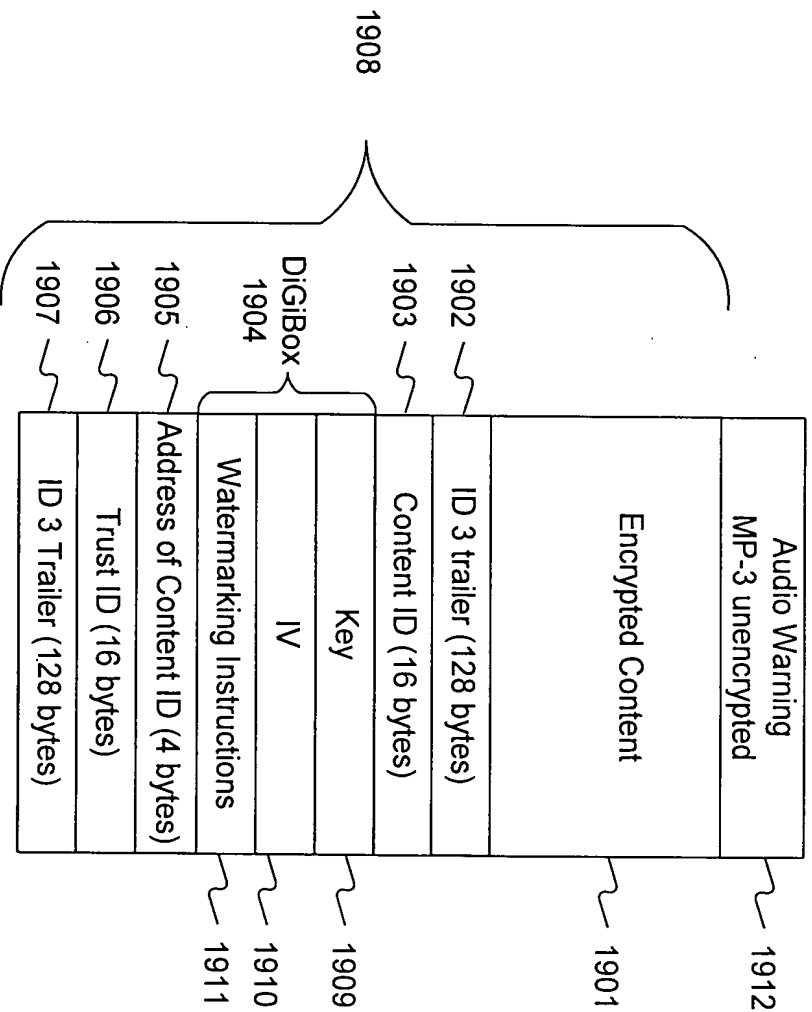


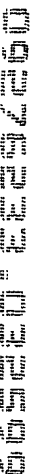
Fig. 15





Protected MP3 Format

Fig. 19



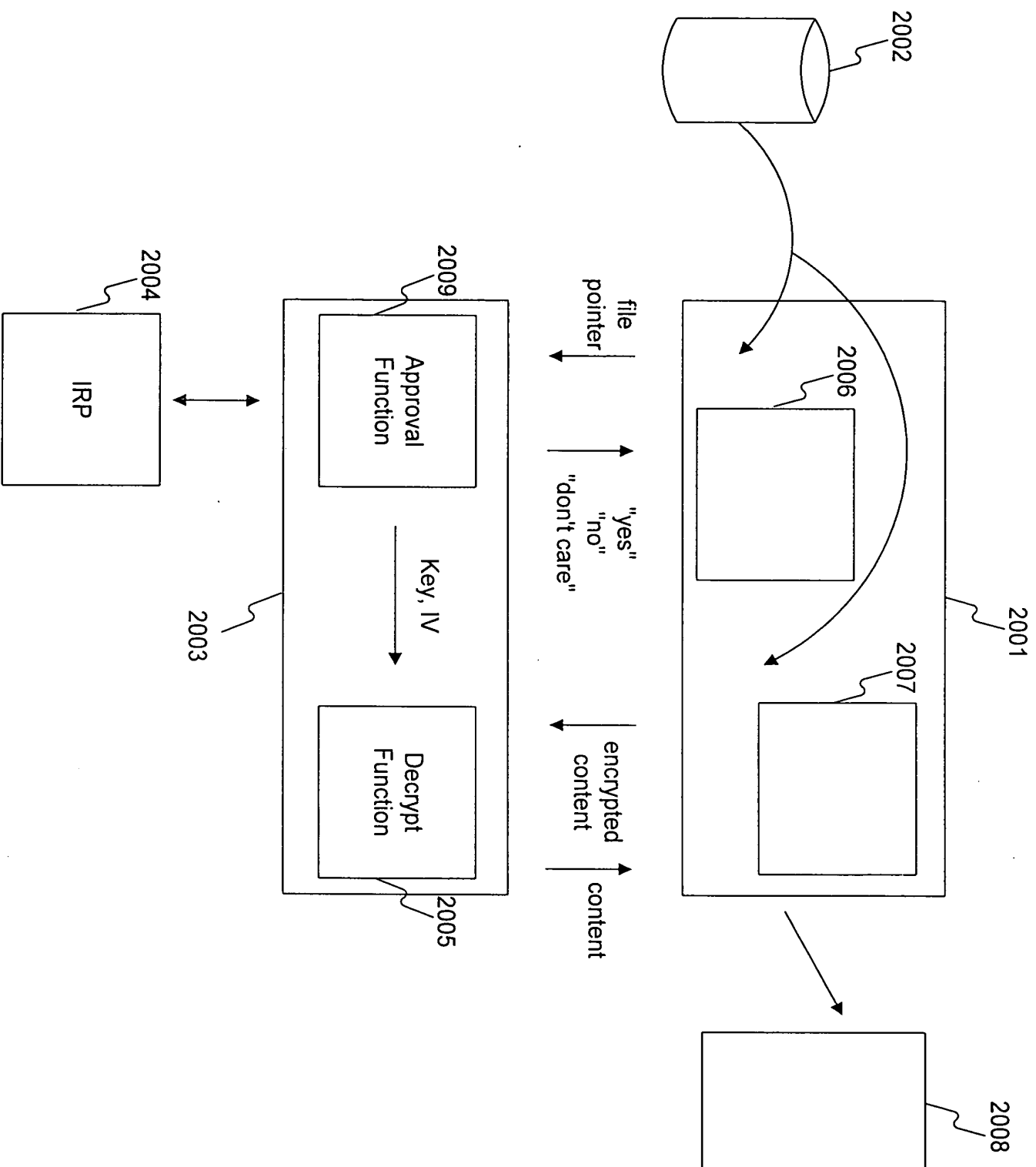


Fig. 20

Creating New MPEG-4 File

- .txt file contains:
- Scene Graph (in text)
- Initial Object Descriptor Cmds

CreateBox is a Digibox creation utility

- Scene Graph Stream (in compressed binary)

- .od file contains:
- Initial Object Descriptor Cmds
- Object Descriptor Stream
- DigiBox 2103

.scr file contains:

Protected
MPEG-4
Content

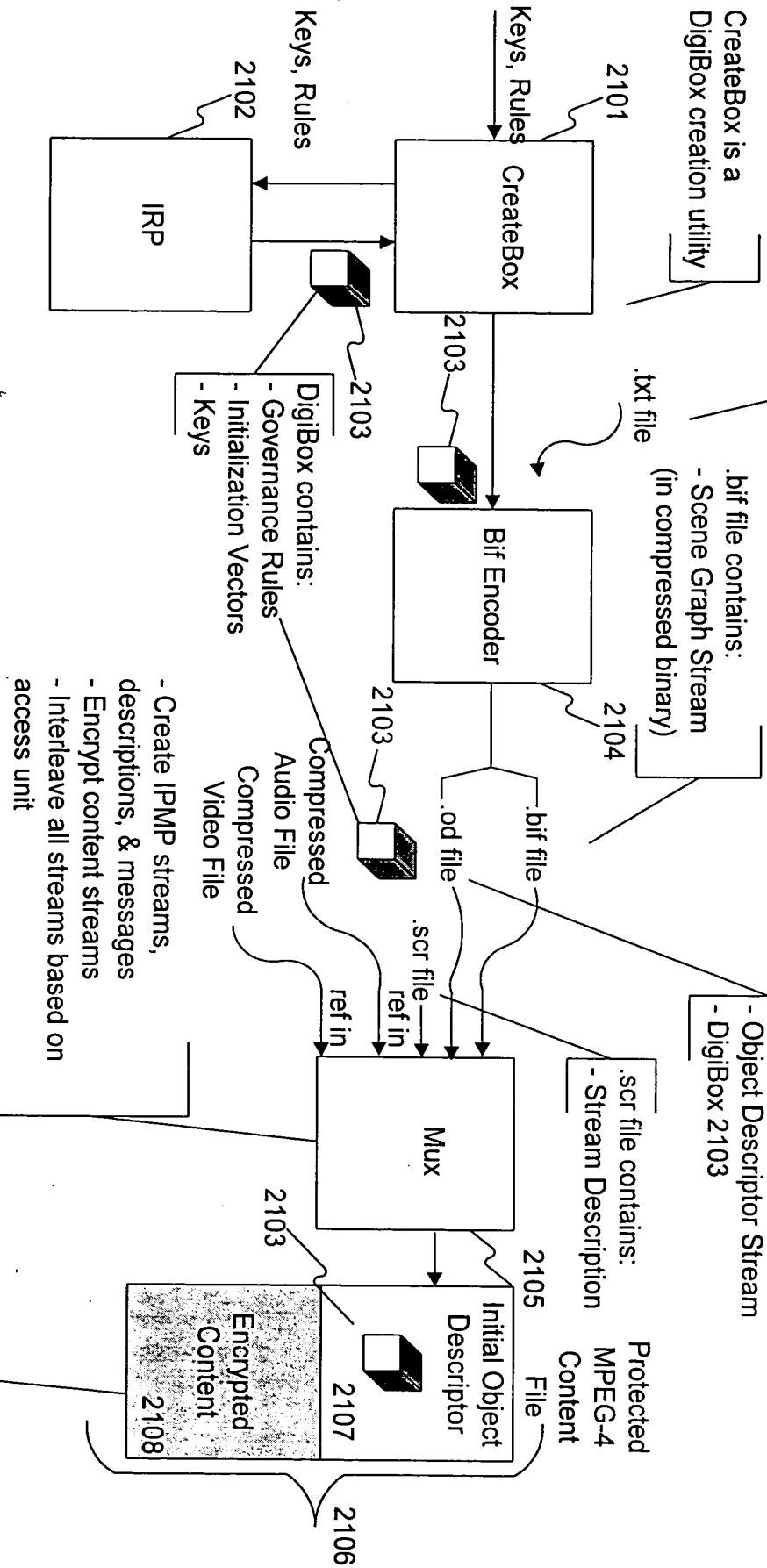


Fig. 21

- Encrypted content:
- Scene Graph Stream
- Object Descriptor Stream
- IPMP Streams
- Encrypted Video Stream
- Encrypted Audio Stream
- Other encrypted content streams

Repackaging Existing MPEG-4 Files

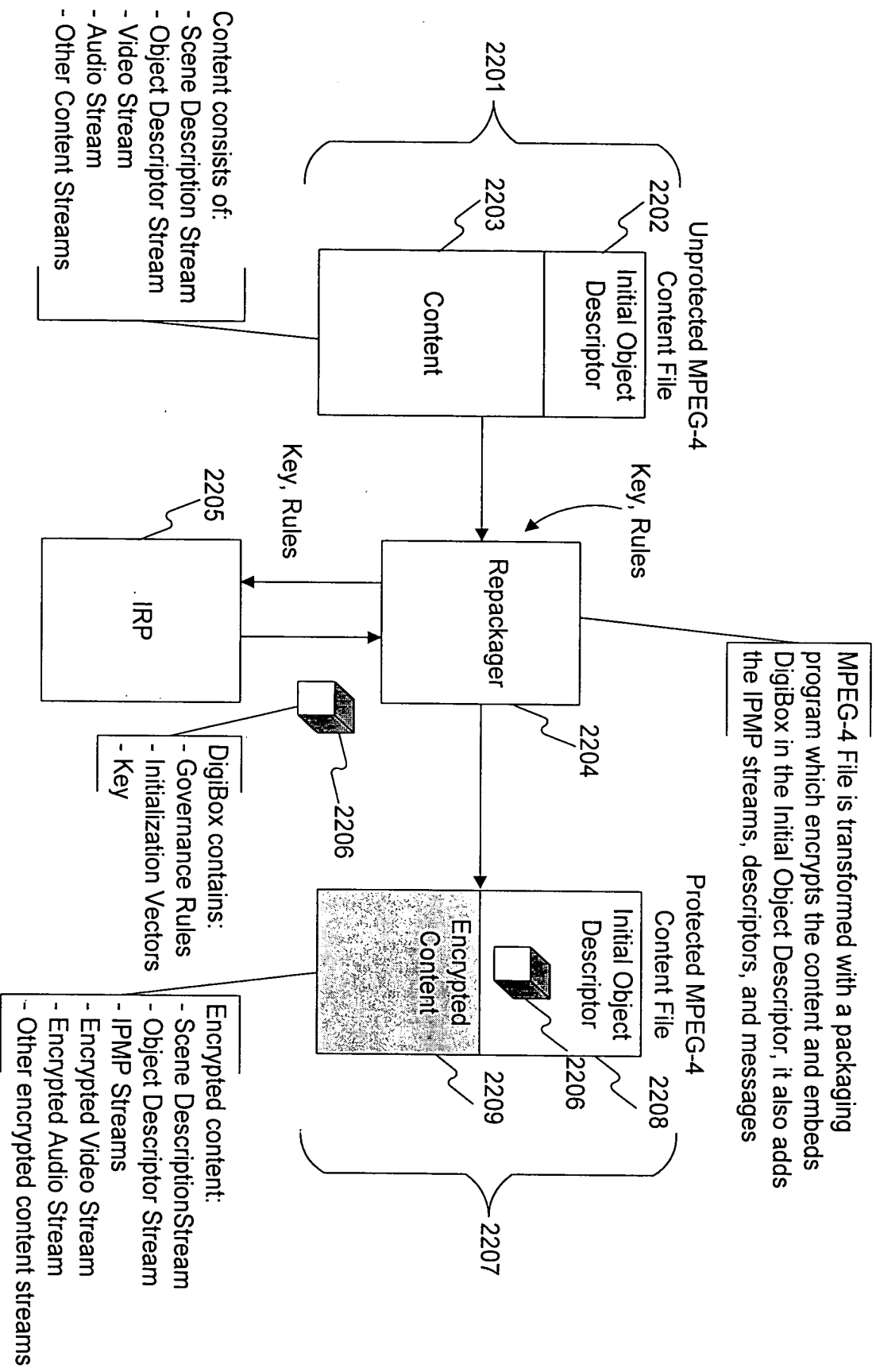


Fig. 22

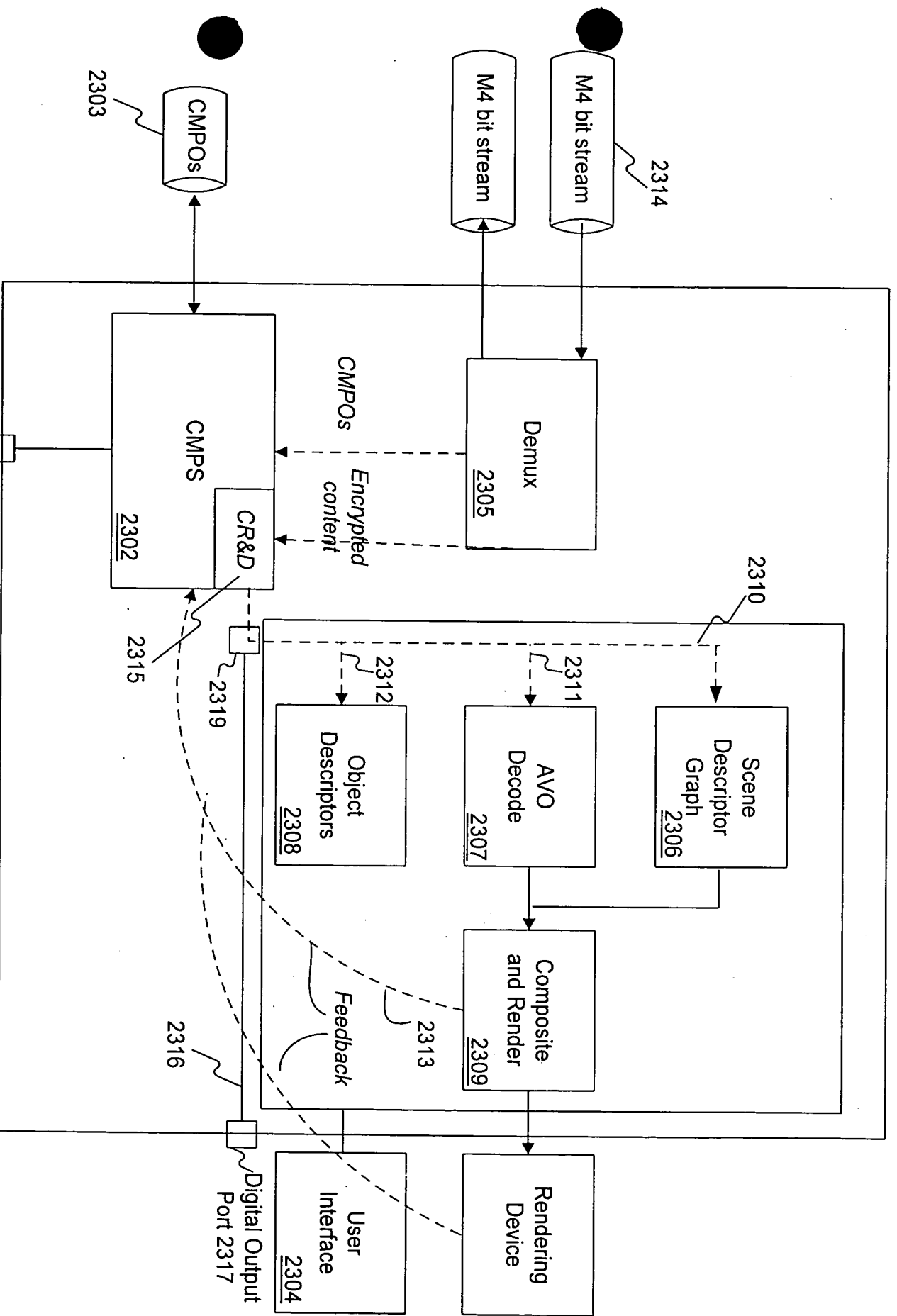


Fig. 23

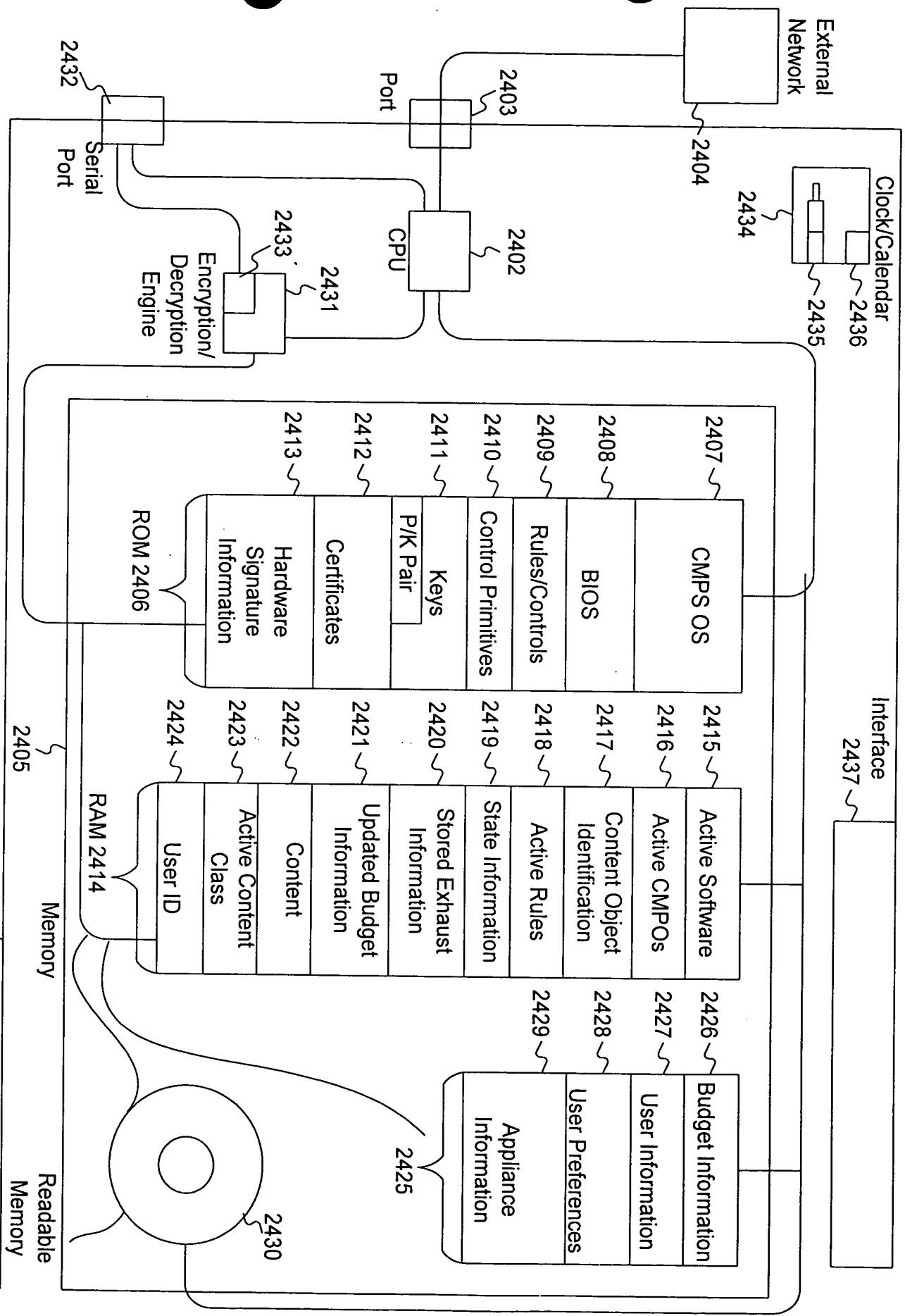
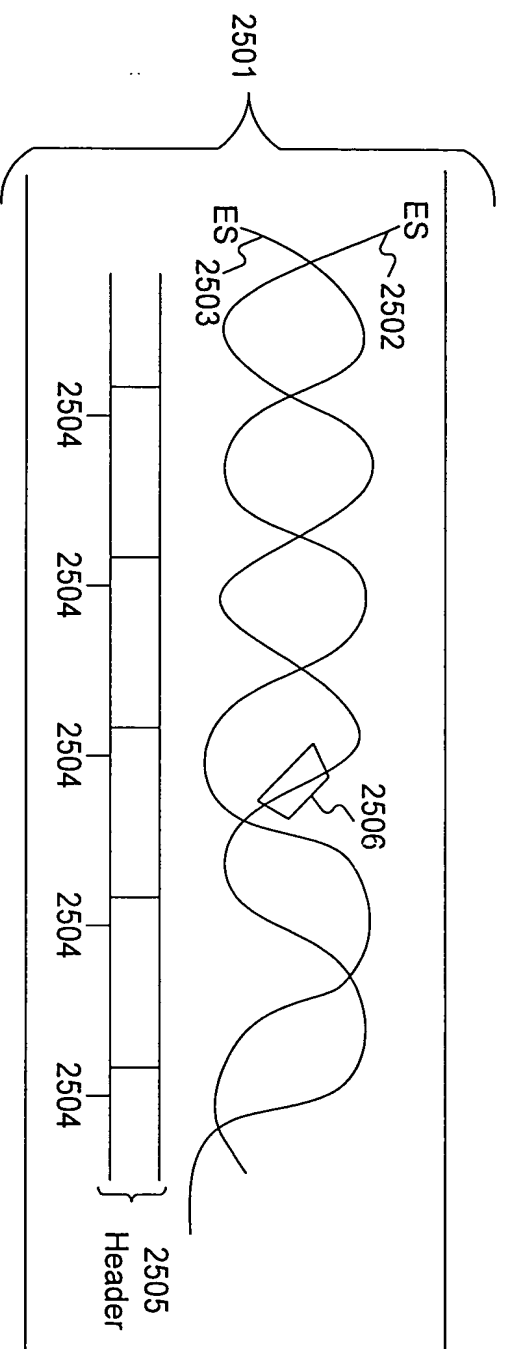


Fig. 24



Aggregate Stream

Fig. 25

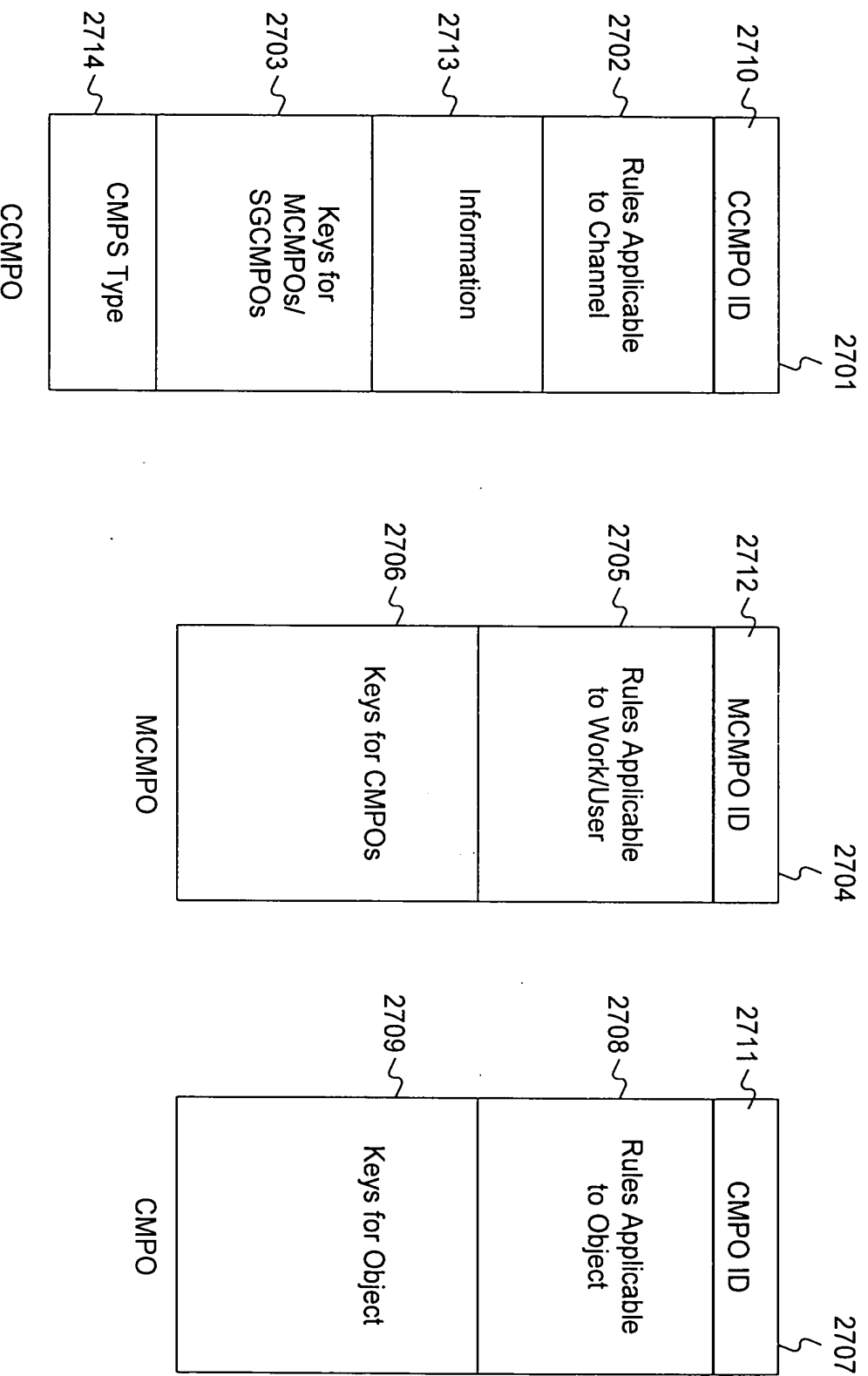
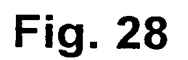


Fig. 27

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0



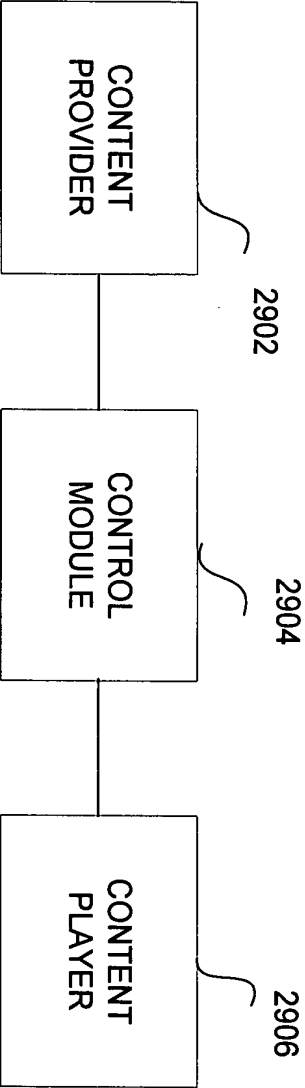


FIG. 29

CONTROL MODULE AND PLAYER ENGAGE IN
PROTOCOL FOR AUTHENTICATION AND
TO ESTABLISH SECRET KEY

3000

DIGITAL CONTENT TRANSACTIONS
FOLLOWING BUSINESS RULES,
AND TRANSLATE REQUIREMENTS
INTO CONTROL INFORMATION

3002

CONTROL MODULE ENCRYPTS CONTENT,
CREATES FILE HEADER, AND
SENDS FILE TO PLAYER

3004

PLAYER RECEIVES AND STORES
FILE AFTER REPLACING HEADER
COMPONENT WITH TEMPORARY KEY

3006

FIG. 30

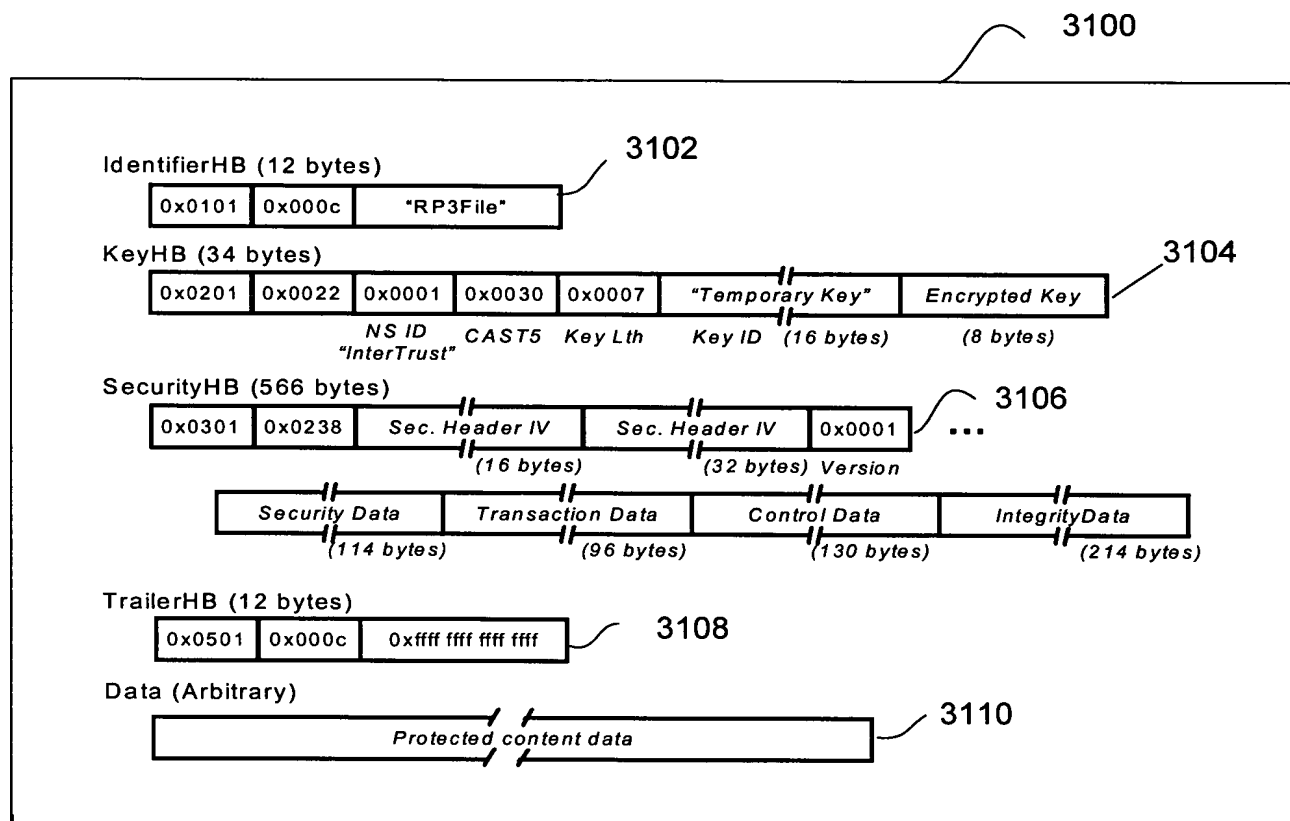


FIG. 31

RP3 File Format

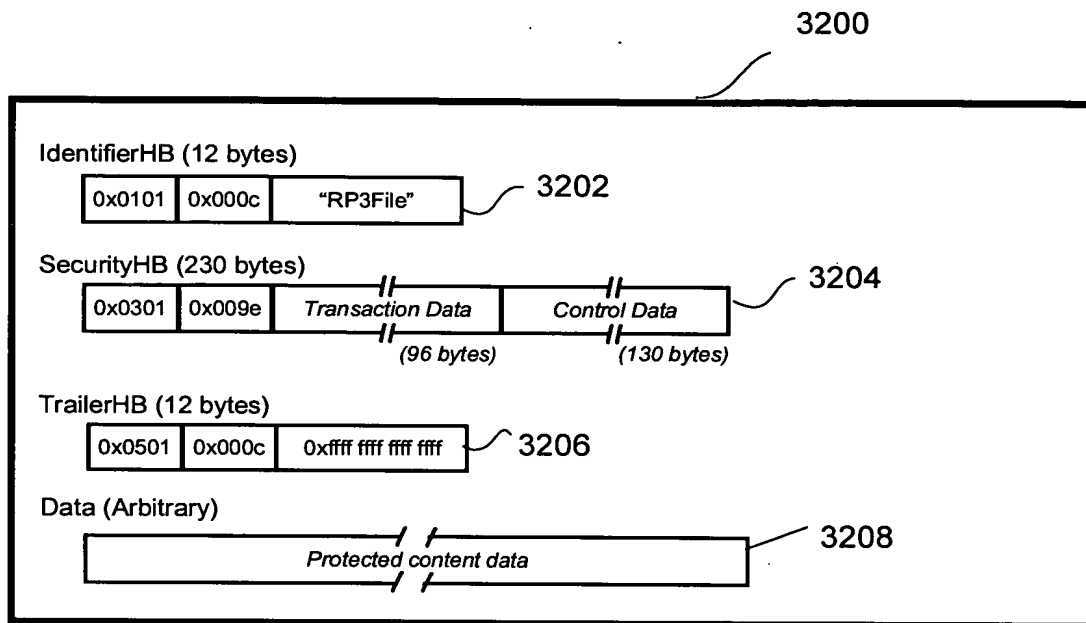


FIG. 32